CATALOGUE EXTRACT

Enclosed transfer switches

Manual & automatic transfer switching equipment

steel enclosures - from 40 to 3200 A

2017

your energy
our expertise

socomec
Innovative Power Solutions

Enclosed transfer switches

Manual operation

MTSE* and Bypass - Steel enclosures from 63 to 3200 A

coff_293_b_1_cat

SIRCO VM1 *changeover switches in steel enclosure*

coff_298_b_1_cat

SIRCOVER *in steel enclosure*

The solution for

> Safe supply of medium critical loads

Strong points

> Visible double breaking (SIRCO VM1)
> On load operation (AC22/AC23) - SIRCOVER
> Safety of operations
> Robust product
> Compact design

Conformity to standards

> IEC 60947-6-1
> IEC 60364
> IEC 61439
> EN 60204-1

Specific requests

> SOCOMEC can provide a wide range of specific requirements. Please consult us.

Function

These **manually operated changeover switches** are mainly used to provide the following functions:

- Changeover/source inversion.
- Switching.
- Earthing.
- Changeover.
- Safety isolation

Advantages

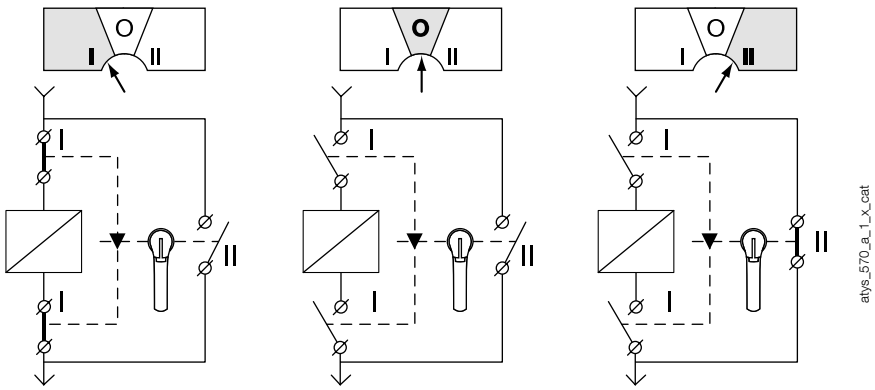
The **SIRCO VM1** and **SIRCOVER** ranges are multipole changeover switches with positive break indication for safe operations.

- The SIRCO VM1 also enables visible double breaking.
- The SIRCOVER range is designed for use in AC22 and AC23 utilisation categories.
- The SIRCO VM1 and SIRCOVER ranges are available in I, 0, II / I, I+II, II / Bypass versions (SIRCOVER only).

What you need to know

SIRCOVER Bypass products are a combination of three interlocked switches enabling the use with 3 + 6 poles or 4 + 8 poles.

They insulate by providing simultaneous safety isolation top and bottom and by passing loads or low voltage circuits mainly during maintenance operations



atys_570_a_1_x_cat

** MTSE: Manual Transfer Switch Equipment*

socomec Innovative Power Solutions

SIRCO VM1 changeover switches in steel enclosure

Front operation

coff_293_b_1_cat

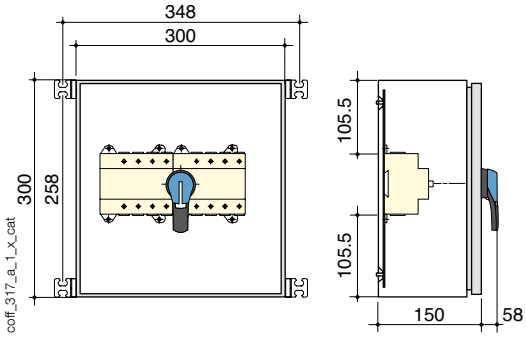
General characteristics

- Adapted to mechanical risk and dust hazard.
- Operation handle: S-type black handle padlockable.
- Protection degree: IP54 / IK 09.
- Colour: epoxy polyester powder RAL 7035.
- Cable gland plate: top and bottom.
- Material: XC steel, thickness 1.5 mm.
- Coating: epoxy polyester powder.
- Wall mounting: 4 mounting brackets supplied (not mounted).
- Door: solid with hinges.
- Locking system: 3 mm double-bar key (key supplied).
- Miscellaneous: 2 earth connection points, double door locking.

References

		Top/Bottom connection
Rating (A)	**No. of poles**	**Reference**
63	3 P	4413 **3006**
63	4 P	4413 **4006**
80	3 P	4413 **3008**
80	4 P	4413 **4008**
100	3 P	4413 **3010**
100	4 P	4413 **4010**

Dimensions



coff_317_a_1_x_cat

Rating (A)	Max. connection section (mm²)	Weight (kg)
3 x 63 / 4 x 63	50	9
3 x 80 / 4 x 80	50	10
3 x 100 / 4 x 100	50	16

SIRCOVER in steel enclosure

Front operation

coff_298_b_2_cat

General characteristics

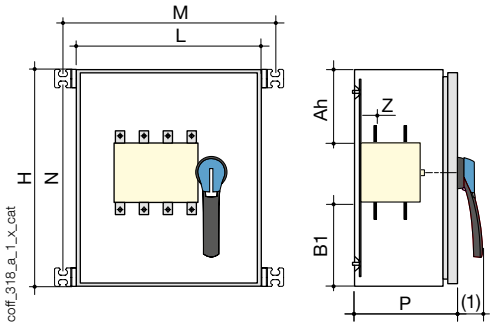
- Adapted to mechanical risk and dust hazard.
- Operation handle: S-type black handle padlockable in position 0.
- Protection degree: IP54 / IK 09.
- Colour: RAL 7035 (range < 630 A) , RAL 9001 for casing and door, other RAL 7035.
- Cable gland plate: top and bottom.
- Material: XC steel, thickness 1.5 mm.
- Coating: epoxy polyester powder (range < 630 A), polyester powder (range ≥ 630 A).
- Wall mounting: 4 mounting brackets supplied (not mounted).
- Door: solid with hinges.
- Locking system: 3 mm double bar key (ratings < 630 A), 8 mm square key (ratings 630 A), key supplied.
- Miscellaneous: 2 earth connection points, double door locking.

References

Rating (A)	No. of poles	Top/Bottom connection	
		I - 0 - II Reference(1)	I - I+II - II Reference(1)
125	3 P	4212 **3012**	4116 **3012**
125	4 P	4212 **4012**	4116 **4012**
160	3 P	4212 **3016**	4116 **3016**
160	4 P	4212 **4016**	4116 **4016**
250	3 P	4212 **3025**	4116 **3025**
250	4 P	4212 **4025**	4116 **4025**
400	3 P	4212 **3040**	4116 **3040**
400	4 P	4212 **4040**	4116 **4040**
500	3 P	4212 **3050**	4116 **3050**
500	4 P	4212 **4050**	4116 **4050**
630	3 P	4212 **3063**	4116 **3063**
630	4 P	4212 **4063**	4116 **4063**
800	3 P	4212 **3080**	4116 **3080**
800	4 P	4212 **4080**	4116 **4080**
1250	3 P	4212 **3120**	4116 **3120**
1250	4 P	4212 **4120**	4116 **4120**
1600	3 P	4212 **3160**	4116 **3160**
1600	4 P	4212 **4160**	4116 **4160**

(1) Provided without bridging bars.
(2) Provided with bridging bars.

Dimensions



coff_316_a_1_x_cat

(1) 125 … 630 A: 58 mm
800 … 1 600 A: 74 mm.

Rating (A)	No. of poles	H x W x D (mm)	Max. connection cross-section (mm^2)	M (mm)	N (mm)	Z (mm)	Top/Bottom connection		
							Ah (mm)	B1 (mm)	Weight (kg)
125	3/4 P	500 x 400 x 250	50	448	458	28	190	190	23
160	3/4 P	500 x 400 x 250	95	448	458	28	190	190	23
250	3/4 P	500 x 400 x 250	150	448	458	29.3	185	185	23
400	3/4 P	800 x 600 x 300	240	758	552	29.3	330	330	45
500	3/4 P	800 x 600 x 300	240	648	658	45	298	298	55
630	3/4 P	800 x 600 x 300	2 x 300	648	658	45	290	290	55
800	3/4 P	1200 x 700 x 500	2 x 300	740	1152	24	465	465	78
1250	3/4 P	1200 x 700 x 500	4 x 185	740	1152	24	465	465	88
1600	3/4 P	1200 x 700 x 500	4 x 300	740	1152	-	470	470	94

SIRCOVER Bypass in steel enclosure

Front operation

coff_298_b_2_cat

General characteristics

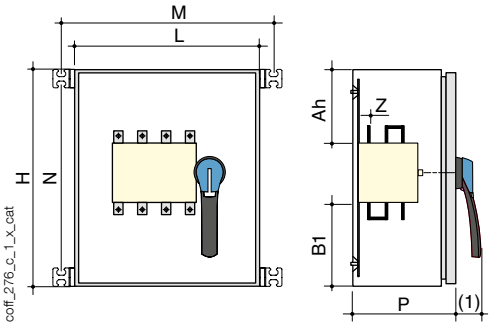
- Adapted to mechanical risk and dust hazard.
- Operation handle: S-type black handle padlockable in position 0.
- Protection degree: IP54 / IK 09.
- Colour: casing and door RAL 9001, locking plates RAL 7035
- Cable gland plate: top and bottom.
- Material: XC steel, 2 mm thick, EZ electrogalvanised steel 25/25.
- Coating: polyester powder.
- Wall mounting: 4 mounting brackets supplied (not mounted).
- Door: solid with hinges.
- Locking system: 3 mm double bar key (ratings < 630 A), 8 mm square key (ratings 630 A), key supplied.
- Miscellaneous: 2 earth connection points, double door locking.

References

Rating (A)	No. of poles	Top/Bottom connection I - 0 - II Reference(1)
125	3+6 P	4119 **7012**
125	4+8 P	4119 **9012**
160	3+6 P	4119 **7016**
160	4+8 P	4119 **9016**
250	3+6 P	4119 **7025**
250	4+8 P	4119 **9025**
400	3+6 P	4119 **7040**
400	4+8 P	4119 **9040**
500	3+6 P	4119 **7050**
500	4+8 P	4119 **9050**
630	3+6 P	4119 **7063**
630	4+8 P	4119 **9063**
800	3+6 P	4119 **7080**
800	4+8 P	4119 **9080**
1250	3+6 P	4119 **7120**
1250	4+8 P	4119 **9120**
1600	3+6 P	4119 **7160**
1600	4+8 P	4119 **9160**

(1) Povided with bridging bars.

Dimensions



coff_276_c_1_x_cat

(1) 125 … 160 A: 58 mm
250 … 630 A: 74 mm
800 … 1600 A: 120 mm

Rating (A)	No. of poles	H x W x D (mm)	Max. connection cross-section (mm^2)	M (mm)	N (mm)	Z (mm)	Top/Bottom connection Ah (mm)	Top/Bottom connection B1 (mm)	Weight (kg)
125	3+6 / 4+8 P	500 x 400 x 350	50	448	452	47	192	192	(1)
160	3+6 / 4+8 P	500 x 400 x 350	95	448	452	47	192	192	(1)
250	3+6 / 4+8 P	800 x 600 x 500	150	640	752	48	335	335	(1)
400	3+6 / 4+8 P	800 x 600 x 500	240	640	752	48	330	330	(1)
500	3+6 / 4+8 P	800 x 600 x 550	240	640	752	64	297	297	(1)
630	3+6 / 4+8 P	800 x 600 x 550	2 x 300	640	752	64	290	290	(1)
800	3/4 P	1200 x 700 x 500	2 x 300	740	1152	24	465	465	78
1250	3/4 P	1200 x 700 x 500	4 x 185	740	1152	24	465	465	88
1600	3/4 P	1200 x 700 x 500	4 x 300	740	1152	-	470	470	94

(1) Please consult us.

Enclosed transfer switches

Motorised operation

ATSE* - Automatic equipment from 40 to 3200 A

coff_366_b_1_cat

ATyS g M *and* ***ATyS p M*** *three-phase in steel enclosure*

coff_305_b_1_cat

ATyS p *three-phase in steel enclosure*

The solution for

- High-rise buildings
- Data centers
- Energy generation
- Healthcare buildings
- Banks and insurance companies
- Transport (airports, tunnels, etc.)

Strong points

- Dedicated solution
- Multiple configurations
- Robust product
- Easy integration

Compliance with standards

- IEC 61439-2
- IEC 60947-6,-1
- IEC 60947-3
- BS 60947-6-1

Function

- **ATSE switching enclosures** are autonomous solutions which monitor the incoming supplies and automatically transfer to ensure power availability for critical applications.
- From 40 to 160 A, enclosures are equipped with ATyS g M (2 P/4 P - simplified control system) or ATyS p M (4 P - advanced control system) in modular format for optimised integration.
- From 125 to 3200 A, enclosures are equipped with ATyS p (4 P - advanced control system) with back-to-back switch configuration, providing a more compact device and enabling easier connection.

Advantages

Dedicated solution

ATSE solutions have been designed and tested with ease-of-use in mind.

Multiple configurations

The ATSE range is available in polycarbonate or steel enclosures.

** ATSE: Automatic Transfer Switching Equipment*

What you need to know - ATSE model

ATyS g M and *ATyS p M* models

Power supply

- ATyS M devices are self-powered from the incoming sources: 230 VAC (176-288 VAC for ATyS g M and 160-305 VAC for ATyS p M), 50/60 Hz (45-65 Hz).
- For three-phase two versions are available:
  - 230 / 400 VAC with neutral conductor: product is powered between phase and neutral,
  - 127 / 230 VAC with or without neutral conductor: product is power supplied between phases.
- For single-phase one version is available:
  - 230 VAC: product is powered between phase and neutral.
- The neutral conductor can be connected to the left or right side of the device.
- Neutral position is automatically detected.

Configuration

ATyS g M

Single-phase interface

atys-gm_004_a.ai

Three-phase interface

atys-gm_003_a.ai

ATyS p M

Three-phase interface

atys-gm_005_a.ai

- Common points between the three-phase and single-phase versions:
  - 2 potentiometers (priority source loss and return time delays)
  - 2 dip switches (pause for 2 seconds in position 0 during transfer I<->II and Transformer/Transformer or Transformer/Genset configuration)
- 4 LEDs (Availability of sources 1 & 2, automatic mode and fault).
- 3 external control inputs (automatic mode inhibit, remote test on load (priority source selection for Transformer/Transformer) and manual retransfer from the backup source to the normal source).
- 1 NO bi-stable output relay for generator start/stop command (30 VDC / 2 A).
- 1 NC relay for product availability (230 VAC / 0.5 A).
- Specific to the three-phase ATyS M:
  - 2 additional potentiometers (nominal voltage and voltage/frequency thresholds)
  - 2 additional dip switches (50 or 60 Hz and 3P/1P network)
- Specific to the single-phase ATyS M:
  - PROG button: nominal voltage and frequency Auto-configuration

- Applications: Transformer/Genset and Transformer/Transformer - with or without priority.
- Independent and fully adjustable voltage and frequency threshold + hysteresis settings, configurable via the HMI.
- HMI: Display + keypad (device configuration, viewing source availability and measurements, test & control mode access).
- LEDs (indicators for - Product powered, Source availability, Switch position, Automatic mode, Test/Control mode & fault).
- 3 programmable inputs.
- 3 programmable volt-free outputs.
- 1 configurable bi-stable output relay for generator start/stop command (30 VDC / 2 A).
- Connection for an ATyS D10 or D20 remote interface .
- RS485 MODBUS communication.

ATyS p models

Operation

ATyS p

ATyS p are equipped with 2 integrated power supplies (same as ATyS d): one is fed from source 1 and the other from source 2.

With either of the two incoming sources present, the ATyS p can be electrically operated into any of its three positions.

Characteristics

- Single-phase or three-phase control on sources I and II.
- Independently adjustable over/undervoltage and over/under frequency thresholds: ± 30% of the nominal value.
- Adjustable hysteresis linked to the threshold values.
- Control of phase rotation.
- Measurements (3U and frequency on networks 1 and 2; ATyS Normal/Emergency source cycle delay)
- Display + keypad (adjustment of all measurement parameters; adjustment of timers 1FT, 2AT, 0DT, 1RT and 2CT; view electrical values in real-time; test and position control functions).
- LEDs (Product powered; Source Availability; Switch position; "AUT" mode; TEST/CONTROL mode and Fault).
- 1 configurable bi-stable output relay for genset start/stop command (30 VDC, 5 A, AC1).
- 1 NO fault relay activated if the position ordered is not reached (30 VDC, 5 A, AC1).

ATyS g M single-phase in polycarbonate enclosure

General characteristics

- From 40 to 160 A.
- Network 230 VAC [176-288 VAC] / 50 Hz/60 Hz [45 Hz-65 Hz].
- Degree of protection: IP 55, IK08.
- Colour: RAL 7035.
- Material: transparent cover, enclosure base: polycarbonate.
- Mounting: 4 holes on the rear of the enclosure.
- Flame resistant to 650°C.

References

ATyS g M version

Rating (A)	No. of poles	Reference
40	2 P	1854 **2004**
63	2 P	1854 **2006**
80	2 P	1854 **2008**
100	2 P	1854 **2010**
125	2 P	1854 **2012**
160	2 P	1854 **2016**

Accessories

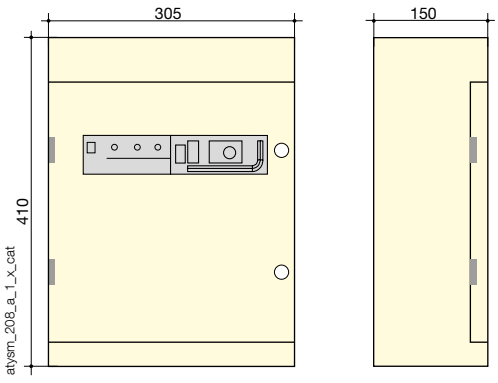

Auxiliary contact


Voltage sensing tap

Customer fit

Description	Reference
Auxiliary contact	1309 **0001**
Voltage sensing and power supply tap (2 for each part)	1399 **4006**
Sealable cover	1359 **2000**

Dimensions



- Weight: 5.5 kg.
- Connection: recommended cable size (Cu): 25 to 70 mm^2 according to rating (max. cable size: 70 mm^2).

ATyS g M and *ATyS p M* three-phase in steel enclosure

General characteristics

- From 40 to 160 A.
- Network 230/400 VAC +/-20% as standard 50 Hz/60 Hz [45 Hz-65 Hz].
- Network 127/230 VAC on request for ATyS g M and ATyS p M 50 Hz/60 Hz [45 Hz-65 Hz].
- Standard for 4 pole and optional for 3 pole versions.
- Bridging bars fitted as standard.
- Degree of protection: IP3X and IP54 versions available.
- Colour RAL 7035.
- Cable gland plates: top and bottom.
- Material: Steel, thickness 1.2 mm.
- Coating: epoxy polyester powder.
- Mounting: 4 wall-mounted brackets supplied - not fitted.
- Door: hinged, cut-out 327.4 x 47.6 mm.
- Locking device: 3 mm double bar (key included).
- Integrated RS485 MODBUS communication - ATyS p M version only.

References

ATyS g M - Network 230/400 VAC

Rating (A)	No. of poles	IP 3X Reference(1)	IP 54 Reference(1)
40	4 P	1854 **4004**	1854 **4005**
63	4 P	1854 **4006**	1854 **4007**
80	4 P	1854 **4008**	1854 **4009**
100	4 P	1854 **4010**	1854 **4011**
125	4 P	1854 **4012**	1854 **4013**
160	4 P	1854 **4016**	1854 **4017**

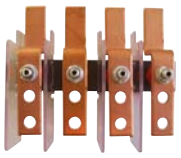
(1) Network 127/230 VAC, on request.

ATyS p M - network 230/400 VAC

Rating (A)	No. of poles	IP 3X Reference(1)	IP 54 Reference(1)
40	4 P	1884 **4004**	1884 **4005**
63	4 P	1884 **4006**	1884 **4007**
80	4 P	1884 **4008**	1884 **4009**
100	4 P	1884 **4010**	1884 **4011**
125	4 P	1884 **4012**	1884 **4013**
160	4 P	1884 **4016**	1884 **4017**

(1) Network 127/230 VAC, on request.

Accessories



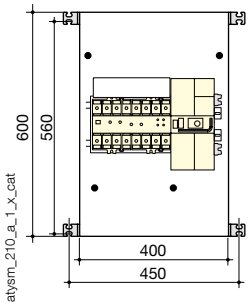
Cage-terminal interface

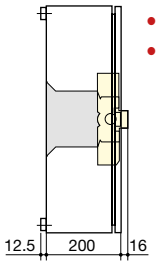
Customer fit

Description	Reference
Auxiliary contact	1309 **0001**
Voltage sensing and power supply tap (2 per reference).	1399 **4006**
Solid neutral	1309 **9008**
Sealable cover	1359 **0000**(1)
Kit IP54	1399 **4016**
Cage-terminal interface	1399 **4017**(2)

(1) For ATyS g M only.
(2) To convert incoming and outgoing terminals, order quantity 3 sets.

Dimensions





- Weight (without accessories): 15 kg.
- Connection (without cage/terminal interface): min. Cu 6 mm², max. 70 mm².

ATyS p three-phase in steel enclosure


coff_306_b_1_cat

General characteristics

- Suitable for environments subject to mechanical risk and dust hazards.
- Degree of protection: IP54.
- Colour: RAL 7035.
- Connections: Top and bottom up to 250 A - bottom connections only for 400 to 3200 A.
- Auxiliary contacts are wired to a terminal block for easy access.
- Material: XC steel, thickness 2 mm.
- Coating: epoxy polyester powder.
- Mounting: ≤ 400 A - 4 wall-mounting brackets, supplied loose; ≥ 630 A - floor-standing feet.
- Door: solid with hinges.
- Locking device: 3 mm double bar (key included)

References

Standard device - 230 VAC

Rating (A)	No. of poles	Reference
125	4 P	1763 **4012**
160	4 P	1763 **4016**
250	4 P	1763 **4025**
400	4 P	1763 **4040**
630	4 P	1763 **4063**
800	4 P	1763 **4080**
1000	4 P	1763 **4100**
1250	4 P	1763 **4120**
1600	4 P	1763 **4160**
2000	4 P	1763 **4200**
2500	4 P	1763 **4250**
3200	4 P	1763 **4320**

Accessories

Customer fit

Description	Reference
Solid neutral 125 …160 A	1599 **1006**
Solid neutral 250 A	1599 **1025**
Solid neutral 400 A	1599 **1040**
Solid neutral 630 A	1599 **1063**
Solid neutral 800 A	1599 **1080**
Solid neutral 1000 A	1599 **1100**
Solid neutral 1250 A	1599 **1120**
Solid neutral 1600 A	1599 **1160**
ATyS D10	9599 **2010**
ATyS D20	9599 **2020**
RJ45 connection cable	1599 **2009**(1)
RS485 MODBUS communication module	1599 **2000**
2 input / 2 output module	1599 **2001**

(1) Required to connect an ATyS D10 or D20.

Dimensions

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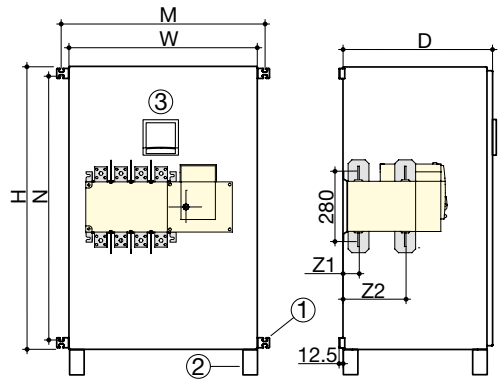

(1) Wall-mounting brackets supplied loose - up to 400 A.
(2) Height adjustable feet from 630 A (add 200 mm for feet, to H dimension).
(3) ATyS D10 or D20 interfaces (optional).

Rating (A)	Recommended Cu cable cross-section (mm^2)	H (mm)	W (mm)	D (mm)	M (mm)	N (mm)	Z1 (mm)	Z2 (mm)	Weight (kg)
125	50	650	400	300	448	608	38	134	25
160	70	650	400	300	448	608	38	134	25
250	120	1000	650	475	698	958	39.5	134.5	45
400	240	1000	650	475	698	958	39.5	134.5	50
630	2 x 185	1000	650	475			53	190	70
800	2 x 240	1200	800	660			66.5	253.5	135
1000	4 x 150	1200	800	660			66.5	253.5	140
1250	4 x 185	1600	1000	830			66.5	253.5	270
1600	4 x 240	1600	1000	830			67.5	253.5	375
2000	8 x 150	2000	1000	1000					400
2500	8 x 185	2000	1000	1000					400
3200	8 x 240	2000	1000	1000					400

Manual enclosed changeover switches

Required configuration

Select the feature in the “Customer Selection” column

- Customer/project: .....
- Date: .....
- Configuration number..... (if multiple configurations)
- Quantity: .....

Please fill one sheet for each required configuration.
Note: Options will require a quotation to be done.

Feature	Choice	Customer Selection	
Rating (A)	63, 80, 100	-	
	125, 160, 250, 400, 630, 800, 1000, 1250, 1600	-	
Number of poles	4	Standard	
	3	Option	
Cable entry	Bottom/bottom	Standard	
	Top/top	Option	
	Top & bottom	option	
Busbar plating	None	Standard	
	Tin	Option	
Display	None	Standard	
	6 lamps (white) for source I & II availability	Option	
Auxiliary contacts	None	Standard	
	1 NO/NC pre break	Option	
Panel material & colour	Steel RAL 7035	Standard	
	Stainless steel, not painted	Option	
Protection degree	IP 54	Standard	
	IP 65	Option	
Surge protection	No surge protection device	Standard	
	Surge protection device	Option	
IEC 61439 certificate	No	Standard	
	Yes	Option	

Automatic enclosed changeover switches

Required configuration

Select the feature in the “Customer Selection” column

- Customer/project: .....
- Date: .....
- Configuration number..... (if multiple configurations)
- Quantity: .....

Please fill one sheet for each required configuration.
Note: Options will require a quotation to be done.

Feature	Choice	Customer Selection	
Rating (A)	40, 63, 80, 100, 125, 160	ATyS M	
	125, 160, 250, 400, 630, 800, 1000, 1250, 1600	ATyS	
ATyS type	ATyS g M/g	Standard	
	ATyS t M/t	Option	
	ATyS p M/p	Option	
Number of poles	4	Standard	
		Option	
	2 P on ATyS M	Option	
Cable entry	Bottom/bottom	Standard	
	Top/top	Option	
	Top & bottom	Option	
Busbar plating	None	Standard	
	Tin	Option	
Display	None (ATyS mounted through the door)	Standard	
	D10 (IP 21) / D20 (IP 21) for ATyS p	Option	
	6 lamps (white) for Source I & II availability, 3 lamps (red) for Position I, 0, II in case of IP 65 requirement.	Option	
Panel material & colour	Steel RAL 7035	Standard	
	Stainless steel, not painted	Option	
	Polycarbonate for ATyS M	Option	
Protection degree	IP 3X (ATyS front face through the door)	Standard	
	IP 65 (D10/20 option not possible)	Option	
Surge protection	No surge protection device	Standard	
	Surge protection device	Option	
Key handle interlocking	No	Standard	
	Yes	Option	
IEC 61439 certificate	No	Standard	
	Yes	Option	

Notes

Model : SOCOMEC
Production : SOCOMEC
Photography : Martin Bernhart et Studio Objectif

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